

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Continuation Application for Reissue of:)
)
U.S. Patent No. 5,462,120) Group Art Unit: 3673
)
Inventor: Michel Gondouin) Examiner: H. Dang
)
Application No.: 09/824,738)
)
Filed: April 4, 2001)
)
For: DOWNHOLE EQUIPMENT, TOOLS
AND ASSEMBLY PROCEDURES FOR
THE DRILLING, TIE-IN AND
COMPLETION OF VERTICAL CASED
OIL WELLS CONNECTED TO LINER-
EQUIPPED MULTIPLE DRAINHOLES

Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicant brings to the attention of the Examiner the documents listed on the attached PTO 1449. To the undersigned's knowledge, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application. The attached PTO 1449 lists the documents previously listed on the PTO 1449 included with the Information Disclosure Statement filed on April 4, 2002. Although copies of the listed documents were provided in parent application serial no. 08/861,457, filed May 22, 1997, the Examiner requested that additional copies be provided. Accordingly, copies of the listed documents are attached.

Applicant respectfully requests that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

RECEIVED
TECHNOLOGY CENTER 3600
02 JUN 27 PM 2:25

FINNEGAN
HENDERSON
FARABOW
GARRETT &
DUNNER LLP

1300 I Street, NW
Washington, DC 20005
202.408.4000
Fax 202.408.4400
www.finnegan.com

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicant determines that the cited documents do not constitute "prior art" under United States law, Applicant reserves the right to present to the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,
GARRETT & DUNNER, L.L.P.

Dated: June 27, 2002

By: 

Kathleen A. Daley
Reg. No. 36,116

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, D. C. 20005
202-408-4000

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	1,507,717	09/09/24	Rich			
	1,520,737	12/30/24	Wright			
	1,734,033	11/05/29	Feis			
	1,735,012	11/12/29	Rich			
	1,804,819	05/12/31	Spencer, et al.			
	1,816,260	07/28/31	Lee			
	1,900,163	03/07/33	Dana			
	1,900,164	03/07/33	Dana, et al.			
	1,901,454	03/14/33	Kelly			
	1,923,448	08/22/33	McCoy, et al.			
	2,043,225	06/09/36	Armentrout, et al.			
	2,058,327	10/20/36	Lane			
	2,118,650	05/24/38	Lee			
	2,147,537	02/14/39	Lowrey			
	2,155,129	04/18/39	Hall, et al.			
	2,164,266	06/27/39	Armentrout, et al.			
	2,171,416	08/29/39	Lee			
	2,173,035	09/12/39	Armentrout, et al.			
	2,198,016	04/23/40	Rogers, et al.			
	2,205,119	06/18/40	Hall, et al.			
	2,211,803	08/20/40	Warburton			
	2,271,005	01/27/42	Grebe			
	2,281,414	04/28/42	Clark			
	2,281,801	05/05/42	Reynolds, et al.			
	2,297,029	09/29/42	Shepard, et al.			

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		2,324,682	07/20/43	Long			
		2,331,293	12/12/43	Ballard			
		2,386,514	10/09/45	Stokes			
		2,397,070	03/19/46	Zublin			
		2,404,341	07/16/46	Zublin			
		2,434,239	01/06/48	Zublin			
		2,452,920	11/02/48	Gilbert			
		2,456,331	12/14/48	Sewell			
		2,492,079	12/20/49	Wiley			
		2,642,267	06/16/53	Zublin			
		2,669,430	02/16/54	Zublin			
		2,696,264	12/07/54	Colmerauer, et al.			
		2,726,847	12/13/55	McCune, et al.			
		2,788,956	04/16/57	Pevere, et al.			
		2,797,893	07/02/57	McCune, et al.			
		2,804,926	09/03/57	Zublin			
		2,821,362	01/28/58	Hatcher			
		2,857,002	10/21/58	Pevere, et al.			
		2,858,107	10/28/58	Colmerauer			
		3,064,729	11/20/62	Lindley			
		3,159,214	12/01/64	Carter			
		3,223,158	12/14/65	Baker			
		3,285,335	11/15/66	Reistle, Jr.			
		3,330,349	07/11/67	Owsley, et al.			
		3,330,360	06/04/68	Bielstein, et al.			

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

U.S. PATENT DOCUMENTS						
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	3,587,743	06/28/71	Howard			
	3,842,912	10/74	Lindsey			
	3,938,592	02/17/76	Aladiev, et al.			
	4,007,797	02/15/77	Jeter			
	4,022,279	05/10/77	Driver			
	4,042,551	09/06/83	Wood, et al.			
	4,068,729	01/17/78	Peevey			
	4,099,783	07/11/78	Verty, et al.			
	4,153,109	05/08/79	Szescila			
	4,160,481	07/10/79	Turk, et al.			
	4,182,423	01/08/80	Ziebarth, et al.			
	4,222,611	09/16/80	Larson, et al.			
	4,249,777	02/10/81	Morrell, et al.			
	4,258,800	03/31/81	Hipp			
	4,279,301	07/21/81	Williams			
	4,285,399	08/25/81	Holland, et al.			
	4,304,299	12/08/81	Holland, et al.			
	4,317,492	03/02/82	Summers, et al.			
	4,396,075	08/02/83	Wood, et al.			
	4,396,230	08/02/83	Wood, et al.			
	4,397,355	08/09/83	McLamore			
	4,397,360	08/09/83	Schmidt			
	4,415,205	11/15/83	Rehm, et al.			
	4,436,165	03/13/84	Emery			
	4,444,276	04/24/84	Peterson			
	4,489,782	12/25/84	Perkins			

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

U.S. PATENT DOCUMENTS							
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate	
	4,519,463	05/28/85	Schuh				
	4,523,652	06/18/85	Schuh				
	4,550,781	11/05/85	Kagler, Jr.				
	4,554,982	11/26/85	Burton				
	4,573,540	03/04/86	Dellinger				
	4,573,541	03/04/86	Josse, et al.				
	4,601,353	07/22/86	Schuh, et al.				
	4,605,076	08/12/86	Goodhart				
	4,646,836	03/03/87	Goodhart				
	4,696,345	09/29/87	Hsueh				
	4,714,117	12/22/87	Dech				
	4,742,871	05/10/88	Miffre				
	4,771,830	09/20/88	Peate				
	4,807,704	02/28/89	Hsu, et al.				
	4,852,666	08/01/89	Brunet				
	4,928,767	05/29/90	Jeisma				
	5,012,877	05/07/91	Winters et al.				
	5,038,859	08/13/91	Lynde et al.				
	5,052,482	10/01/91	Gondouin				
	5,085,275	02/04/92	Gondouin				
	5,109,924	05/05/92	Jurgens, et al.				
	5,115,872	05/26/92	Brune, et al.				
	5,127,457	07/07/92	Stewart, et al.				
	5,148,877	09/22/92	MacGregor				
	5,289,876	03/94	Graham				
	5,301,760	04/12/94	Graham				

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

U.S. PATENT DOCUMENTS							
Examiner Initial*		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
		5,318,121	06/07/94	Brockman, et al.			
		5,318,122	06/07/94	Murray, et al.			
		5,322,127	06/94	McNair, et al.			
		5,325,924	07/94	Bangert, et al.			
		5,337,808	08/16/94	Graham			
		5,353,876	10/94	Curington, et al.			
		5,388,648	02/95	Jordan			

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub Class	Translation Yes or No
		2295840	06/12/96	GB			
		2282835	04/19/95	GB			
		SU 787 611	12/80	USSR			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
1	David Ackert, Manfred Boetel, Toni Marzalek, Christian Clavier, Peter Goode, Michael Thambynayagam and Ted Stagg, Looking Sideways for Oil, The Technical Review, Vol. 36, No. 1, pp. 22-31.
2	Ahmed, U., Horizontal Well Completion Recommendations Through Optimized Formation Evaluation, SPE 22992, November 4, 1991, pp. 423-435.
3	U. Ahmed and S. Jacobsen, Practical Aspects of Horizontal Well Technology: A Perspective, SPE 21260.
4	S.A. Andersen, S.A. Hansen, and K. Fjeldgaard, Horizontal Drilling and Completion: Denmark, SPE 18349, pp. 155-165.
5	Svend Aage Andersen, John M. Conlin, Kjeld Fjeldgaard, Exploiting Reservoirs with Horizontal Wells: The Maersk Experience, Oilfield Review, Vol. 2, No. 3, pp. 11-21.
6	J.P. Ashton, J. Liput, R. Lemons, and J. Summerlin, Gravel Packing Horizontal and Highly Deviated Openhole Completions Using a Single-Screen Prepacked Liner in Offshore California Fields, SPE 19718, pp. 165-178.
7	Fred L. Babins, Problems in Cementing Horizontal Wells, Reservoir Selection for Horizontal Wells, pp. 1-8.
8	Tony Beckett and Lee Hoffpauir, Test Off Philippines Boosts Horizontal Drilling Technology, Petroleum Engineer International, November 1989, pp. 24, 25, 26, 28, 30, 32.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
9	Peter Betts, Curt Blount, Bill Broman, Brian Clark, Larry Hibbard, Alain Louis and Paul Oosthoek, Acquiring and Interpreting Logs in Horizontal Wells, Oilfield Review, Vol. 2, No. 3., pp. 34-51.
10	W.B. Bradley, C.E. Murphey, R.T. McLamore, and L.L. Dickson, Advantages of Heavy Metal Collars in Directional Drilling and Deviation Control, Journal of Petroleum Technology, May 1976, pp. 521-530.
11	Gary M. Briggs, How to Design a Medium-Radius Horizontal Well, Petroleum Engineer International, September 1989, pp. 26, 30, 31, 32, 36, 37.
12	Ernie Brown, Ron Thomas, Arthur Milne, The Challenge of Completing and Stimulating Horizontal Wells, Oilfield Review, Vol. 2., No. 3., pp. 52-63.
13	J. Bryant, D. Watson, W. Wisniewski, R. Patterson and L. Smith, Applications and Limitations of Horizontal Drilling in Oklahoma, SPE 22569, pp. 313-326.
14	D. Bryant, T. Hudson, and S. Hoover, Use of Low-Density Particles for Packing a Highly Deviated Well, SPE 20984, pp. 387-395.
15	Trevor Burgess and Patrick Van De Slijke, Horizontal Drilling Comes of Age, Oilfield Review, Vol. 2, No. 3, pp. 22-33.
16	Richard S. Carden, Air Drilling Has Some Pluses for Horizontal Wells, Oil & Gas Journal, April 8, 1991, pp. 76-78.
17	Correspondence, from Matt W. Carson to William E. Shull, December 2, 1996.
18	Christensen, Axel, Recent Achievements in Drilling and Completion of Multiple Lateral Drainholes in Chalk Reservoirs, Customer Presentation?, 1992?
19	D.B. Christian, Planning and Operational Requirements for a Shallow-Objective, High-Angle Well in the Gulf of Mexico, SPE Drilling Engineering, September 1988, pp. 241-247.
20	Gavin Clark, Piyush Shah, Bruno Deruyck, D.K. Gupta and S.K. Sharma, Horizontal Well Testing in India, Oilfield Review, Vol. 2, No. 3, pp. 64-67.
21	S.B. Claytor, K.J. Manning and D.L. Schmalzried, Drilling a Medium-Radius Horizontal Wells with Aerated Drilling Fluid: A Case Study, SPE/IADC 21988, pp. 759-773.
22	S.B. Claytor Jr. and J. Speed, Steerable Systems Drilling: The Right Angle for Horizontal Drilling, SPE 19466, pp. 7-16.
23	R.L. Cook, J.W. Nicholson, M.G. Sheppard and W. Westlake, First Real Time Measurements of Downhole Vibrations, Forces, and Pressure Used to Monitor Directional Drilling Operations, SPE/IADC 18651, pp. 283-290.
24	M.F. Cooney, T. Rogers, E.S. Stacey and R.N. Stephens, Case History of an Opposed-Bore, Dual Horizontal Well in the Austin Chalk Formation of South Texas, SPE/IADC 21985, pp. 737-748.
25	R.E. Cooper, "Coiled Tubing in Horizontal Wells, SPE 17581, pp. 323-334
26	R.E. Cooper and J.C. Troncoso, An Overview of Horizontal Well Completion Technology, SPE 17582, pp. 335-350.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
27	Kevin T. Corbett and Rapier Dawson, Drillstring Design for Directional Wells, Technology, April 30, 1984, Oil & Gas Journal, pp. 61-66.
28	D.D. Cramer, Guides Exist for Fracture Treatment in Horizontal Wells, OGJ Special, March 27, 1989, Oil & Gas Journal, pp. 41, 44, 46, 48, 49.
29	A. Damgaard, D.S. Bangert, D.J. Murray, R.P. Rubbo and G.W. Stout, A Unique Method for Perforating, Fracturing and Competing Horizontal Wells, SPE 19282.
30	Dennis Dann and David Jetelina, New Logging Approach Detects Fractures in Horizontal Wells, Petroleum Engineer International September 1990, pp. 30, 32, 33, 35, 36.
31	James A. Dech, David D. Hearn, Frank J. Schuh and Bob Lenhart, New Tools Allow Medium-Radius Horizontal Drilling, Technology, July 14, 1986, Oil & Gas Journal, pp. 95-99.
32	E.P. Deliac, J.P. Messines, and B.A. Thierree, Mining Technique Finds Applications in Oil Exploration, Oil & Gas Journal, May 6, 1991, pp. 84, 86, 88, 90.
33	H. Delafon, BHA Prediction Software Improves Directional Drilling, Part 1, World Oil, March 1989, pp. 51-56, 60.
34	H. Delafon, BHA Prediction Software Improves Directional Drilling, Part 2, World Oil, April 1989, pp. 45, 46, 47, 48, 50.
35	William P. Diamond and David C. Oyler, Drilling Long Horizontal Coalbed Methane Drainage Holes from a Directional Surface Borehole, SPE/DOE 8968, pp. 341-346.
36	W. Dickinson, R.G. Knoll, R. Nordlund and W. Dickinson, Flexible Sand Barrier (FSB): A Novel Sand Control System, SPE 18787, pp. 419-424.
37	W. Dickinson, R.R. Anderson and R.W. Dickinson, The Ultrashort-Radius Radial System, SPE Drilling Engineering, September 1989.
38	Wade Dickinson, Michael J. Pesavento, R. Wayne Dickinson, Data Acquisition, Analysis, and Control While Drilling with Horizontal Water Jet Drilling Systems, CIM/SPE 90-127, pp. 127-1 thru 127-10.
39	Wade Dickinson, Eric Dickinson, Herman Dykstra and John M. Nees, Horizontal Radials Enhance Oil Production from a Therman Project, Oil & Gas Journal, May 4, 1992, pp. 116, 118, 120, 122, 123, 124.
40	Eastman, H. John, Lateral Drain Hole Drilling, Petroleum Engineer, 11/54.
41	Eastman, H. John, Lateral Drain Hole Drilling, Petroleum Engineer, 12/54.
42	Eastman, H. John, Lateral Drain Hole Drilling, Petroleum Engineer, 03/55.
43	Michael J. Economides, John D. McLennan, Ernest Brown, and Jean-Claude Roegiers, Performance and Stimulation of Horizontal Wells, World Oil, July 1989, pp. 69-72, 76, 77.
44	A. Eddison and J. Symons, Downhole Adjustable Gauge Stabilizer Improves Drilling Efficiency in Directional Wells, SPE 20454, pp. 509-516.
45	R. Ehlers, L. Kracht and J. Witte, Case History of Horizontal Wells Drilled with Navigation Technology in European Operations, SPE/IADC 18654, pp. 315-324.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
46	Guy Feneyrou, French Three-Leg Multidrain Well Improves Production, OGJ Report, Oct. 1, 1984, Oil & Gas Journal, pp. 49-53.
47	Fincher, Roger W., "Short-Radius Lateral Drilling: A Completion Alternative," PE Int'l, 02/87.
48	J.E. Fontenot, Successful High Angle Completions, Cementing, and Drilling's Impact, SPE 17628, pp. 831-842.
49	S.H. Fowler, Jr. and C.W. Pleasants, Operation and Utilization of Hydraulic-Actuated Service Tools for Reeled Tubing; SPE 20678, pp. 631-640.
50	Jean-Francois Glannesini, Horizontal Drilling Is Becoming Commonplace: Here's How It's Done, World Oil, March 1989, pp. 35, 37, 36, 38, 40.
51	Lindsay Fraser, Effective Ways to Clean and Stabilize High-Angle Holes, Petroleum Engineer International, November 1990, pp. 30, 32, 34, 35.
52	T.P. Frick and M.J. Economides, Horizontal Well Damage Characterization and Removal, SPE 21795, pp. 429-438.
53	G-F. Fuh and P.K. Loose, Horizontal Wellbore Stability for Openhole Completions, SPE 19717, pp. 155-164.
54	G.F. Fuh, D.B. Deom, and R.D. Turner, Wellbore Stability and Drilling Results from the First Horizontal Well in the Kotter Field Offshore The Netherlands, SPE 22544, pp. 101-109.
55	Fuh, G., Dew, E.G., Ramsey, C.A., and Collins, K., Borehole Stability Analysis for the Design of First Horizontal Well Drilled in the UK's Southern 'V' Field, SPE 20408, September 23, 1990, pp. 31-42.
56	J.D. Fultz, F.J. Pittard, F.D. Sawyer and W.R. Farmer, Slim-Hole Drilling in Harsh Environments, IADC/SPE 19949, pp. 333-340.
57	Jim Fultz and Fred Pittard, Bottomhole System Works Completes Horizontal Wells, World Oil, March 1990, pp. 48-50.
58	Andrew Gallup, B.L. Wilson and Robert Marshall, ESP's Placed in Horizontal Lateral Increase Production, Oil & Gas Journal, June 18, 1990, pp. 58-60, 62-63.
59	D.B. Gaudin and J.C. Beasley, A Comparison of MWD and Wireline Steering Tool Guidance Systems in Horizontal Drilling, SPE 22536, pp. 7-18.
60	A.A. Gavignet and I.J. Sobey, A Model for the Transport of Cuttings in Highly Deviated Wells, SPE 15417.
61	T.M. Gaynor, Downhole Control of Deviation with Steerable Straight-Hole Turbodrills, SPE Drilling Engineering, March 1988.
62	Gondouin, et al., The Challenge of West Sak Heavy Oil: Analysis of an Innovative Approach, SPE 22077, 05/29/91.
63	Gondouin, Heavy Oil Recovery Process, Abstract of 1 st Qtr. Report, DOE-T1, 01/31/90.
64	Gondouin, Heavy Oil Recovery Process, Third Qtrly. Report, DOE-T3, 10/15/90.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
65	Gondouin, Heavy Oil Recovery Process, 4 th Qtrly. Report, DOE-T4, 31/91.
66	P.A. Goode and D.J. Wilkinson, Inflow Performance of Partially Open Horizontal Wells, SPE 19341, pp. 309-320.
67	Anthony W. Gorody, TEDSI Develops Horizontal Drilling Technology, Oil & Gas Journal, Oct. 1, 1984, OGJ Report, pp. 118, 120, 125, 126.
68	Robert D. Grace, Mike Pippin, Downhole Fires During Air Drilling: Causes and Cures, World Oil, May 1989, pp. 42-44.
69	Stephen A. Graham, Bruce Henderson & Greg Nazzal, Drilling a Dual-Bore Horizontal Well in the Austin Chalk: A Case History, ASME 91-PET.
70	Stephen A. Graham and Greg Nazzal, Second Lateral in Horizontal Well Solves Water, Problem Oil & Gas Journal, March 18, 1991, pp. 111-114.
71	John F. Greenip Jr., How to Design Casing Strings for Horizontal Wells, Petroleum Engineer International, December 1989; pp. 34-38.
72	Kenneth B. Gunn, Well Cored to 9,800 Ft. in Paraguay, Oil & Gas Journal, 5/13/91, pp. 51-55.
73	Douglas Gust, Horizontal Drilling Evolving from Art to Science, Technology, July 24, 1989, Oil & Gas Journal, pp. 43-46, 49-52.
74	R.C. Haas and C.O. Stokley, Drilling and Completing a Horizontal Well in Fractured Carbonate, World Oil, October 1989, pp. 39, 40, 42, 44, 45.
75	D.J. Hall, J.L. Walker, E.G. Schmelzl, and T.B. Haene, Logging and Perforating of Horizontal Wells: An Innovative Approach, SPE 21836, pp. 307-316.
76	L.R.B. Hammons, W.C. Barnett, E.K. Fisher and D.H. Sellers, Stratigraphic Control and Formation Evaluation of Horizontal Wells Using MWD, SPE 22538, pp. 25-38.
77	Hardeman, P., Beckingham 36 Horizontal Well, SPE Drilling Engineering, March 1989, pp. 17-23.
78	P.E. Harness, M.D. Hansen, G.A. Terzian, S.H. Fowler, Jr. and F.J. Golino, An Overview of Reeled-Tubing-Conveyed Production Logging Capabilities in California, SPE 20028, pp. 155-163.
79	Floyd Harvey, Fluid Program Built Around Hole Cleaning, Protecting Formation, Oil & Gas Journal, Nov. 5, 1990, pp. 37-41.
80	Pat Herbert, Drilling with New-Generation Positive Displacement Motors, SPE 10239.
81	Hesse, Karl, Multilateral Drilling-A Case History, Customer Presentation?, 11/25/92.
82	D.R. Holbert, New Interest in Drainhole Drilling Revives Technology, World Oil, March 1981, pp. 57, 58, 61, 62, 64, 66, 70, 72.
83	Holifield & Associates, Pearsall and Giddings Austin Chalk Horizontal/Directional Drilling Program, 06/1/91.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
84	Ray H. Holifield, Bill Rehm, Recompletion by Horizontal Drilling Pays Off, World Oil, March, 1989, pp. 42, 43, 50.
85	Holton, David S., How Shell Handles Remedial Jobs at Ventura, Petroleum Engineer, 01/63.
86	J.L. Hood III, M.D. Mueller, and M.G. Mims, The Uses of Buoyancy in Completing High-Drag Horizontal Wellbores, SPE 23027, pp. 757-764.
87	M.R. Islam and A.E. George, Sand Control in Horizontal Wells in Heavy Oil Reservoirs, SPE 18789, pp. 437-452.
88	Warren Jones, Unusual Stresses Require Attention to Bit Selection, Oil & Gas Journal, Oct. 22, 1990, pp. 81-85.
89	Joshi, S.D., Proper Completion Critical for Horizontal Wells, Special Report, Johsi Technologies International, Inc., January 1990.
90	Joshi, S.D., "A Review of Horizontal Well and Drainhole Technology" SPE paper 16868, presented at the 62 nd Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, Dallas, TX, 27-30 Sept. 1987.
91	Jurgens, R., Bitto, R., Henderson, B., White, C., and Mullins, G., Horizontal Drilling and Completions: A Review of Available Technology, Petroleum Engineer International, February, 1991, pp. 14-21.
92	Rainer Jurgens, Ron Bitto, Bruce Henderson, Cameron White and Gus Mullins, Horizontal Drilling and Completions: A Review of Available Technology, Petroleum Engineer International, March, 1991, pp. 32-34, 36-37.
93	H. Karisson, R. Cobbley, and G.E. Jaques, New Developments in Short, Medium, and Long-Radius Lateral Drilling, SPE/IADC 18706, pp. 725-736.
94	Haraldur Karisson and Ron Bitto, Worldwide Experience Shows Horizontal Well Success, World Oil, March 1989, pp. 51-54, 56.
95	L. Keelean, S.S. Harris and N. Petronio, Short Radius Drilling Technology Utilizing Mobile Service/Workover Rig, SPE/IADC 18711, pp. 765-772.
96	D. Kerr and K. Lesley, Mechanical Aspects of Medium Radius Well Design, SPE 17618, pp. 719-726.
97	Denny Kerr, Designing Tangent Sections for Medium-Radius Horizontal Wells, World Oil, March 1991, pp. 45-47.
98	Denny Kerr, How to Drill a Smooth Medium-Radius Well, World Oil, March 1990, pp. 46-47.
99	G.E. King, Perforating the Horizontal Well, Journal of Petroleum Technology, July 1989, pp. 671-672.
100	William King, Selecting Bits for Extended Reach and Horizontal Wells, World Oil, April 1990, pp. 55-57, 59-60.
101	Kuich, Seismic and Horizontal Drilling Unlock Austin Chalk, World Oil, September 1990, pp. 47, 48, 50, 52, 54.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
102	M.J. Landman and W.H. Goldthorpe, Optimization of Perforation Distribution for Horizontal Wells, SPE 23005, pp. 567-576.
103	William J. Lang and Marion B. Jett, High Expectations for Horizontal Drilling Becoming Reality, Oil & Gas Journal, Sept. 24, 1990, OGJ Special, pp. 70, 74, 76, 79.
104	R.C. Leaf and F.J. Pittard, Review of Horizontal Methods and Drilling Technology, SPE 21862, pp. 575-584.
105	J. Lessi and A. Spreux, Completion of Horizontal Drainholes, SPE 17572, pp. 209-218.
106	T.K. Li, V. Chandelle, and J. Brych, Lateral Drilling: A New Application Shows Promise, World Oil, June 1986, pp. 68-71.
107	Jeff H. Littleton, Sohio Studies Extended-Reach Drilling for Prudhoe Bay, Petroleum Engineer International, October 1985, pp. 28, 32, 34.
108	D. Malekzadeh and D. Tiab, Interference Testing of Horizontal Wells, SPE 22733, pp. 717-727.
109	Christian Mariotti and Evelynne Kou, Elf Improves Horizontal Drilling at Rospo Mare, Petroleum Engineer International, August 1988, pp. 30, 32, 35.
110	C.M. Matthews and L.J. Dunn, Drilling and Production Practices to Mitigate Sucker Rod/Tubing Wear-Related Failures in Directional Wells, SPE 22852, pp. 363-374.
111	Ron Matson and Rod Bennett, Cementing Horizontal Holes Becoming More Common, Oil & Gas Journal, Dec. 17, 1990, pp. 40-46.
112	Maurer Engineering, Inc., "Evaluation of Branch and Horizontal Boreholes for in Situ Leach Mining," U.S. Dept. of the Interior, Bureau of Mines Paper (Maurer), 07/8.
113	G.K. McKown, Drillstring Design Optimization for High-Angle Wells, SPE/IADC 18650, pp.275-282.
114	J. Misselbrook, G. Wilde and K. Falk, The Development and Use of a Coiled-Tubing Simulation for Horizontal Applications, SPE 22822, pp. 29-41.
115	T.J. Moo and M.W. Tweedy, Planning and Drilling Australia's First Medium-Radius Horizontal Wells, SPE 23013, pp. 629-640.
116	Steven D. Moore, Meridian Oil Finds Success with Horizontal Wells; Petroleum Engineer International, November 1989, pp. 17, 18, 19, 20, 22.
117	W.D. Moore III, ARCO Drills Horizontal Drainhole for Better Reservoir Placement, Oil & Gas Journal, September 15, 1980, pp. 139-148.
118	Guntis Moritis, Horizontal Drilling Scores More Successes, Oil & Gas Journal, OGJ Special, Feb. 26, 1990, pp. 53, 54, 58, 62, 63, 64.
119	Guntis Moritis, Horizontal Drilling Technology Keeps Advancing, Oil & Gas Journal, OGJ Special, March 11, 1991, pp. 49-53.
120	Muriby, et al., Horizontal Drilling Success Offshore ABU Dhabi, SPE 21311, 11/16/91.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
121	F.R. Myal and K-H. Frohne, Slant-Hole Completion Test in the Piceance Basin, Colorado, SPE 21866, pp. 611-622.
122	S.B. Nice and W.H. Fertl, Logging, Competing Extended-Reach and Horizontal Wells, World Oil, March 1991, pp. 49, 50, 52, 53, 55, 56.
123	Sid B. Nice, Leading Edge Logging, Well Logging and Completion Technology for Horizontal Wellbores, Popular Horizontal, p. 4.
124	Sid B. Nice and W.H. Fertl, New Logging, Completion Techniques Boost Horizontal Well Productivity, Petroleum Engineer International, November 1990, pp. 20, 22, 23, 26.
125	G. Norel, C. Buboiss, and G. Georges, Test Bench Checks Cement in Horizontal Holes, Petroleum Engineer International, November 1988, pp. 54-59.
126	Parcevaux, Philippe, Guides Emerge for Cementing Horizontal Strings, OGJ, 10/19/87.
127	Parsons, et al., "Short-Radius Lateral Drilling: A Completion Alternative," Society of Petroleum Engineers (SPE), Paper #15943, November 12, 1986, Richardson, Texas.
128	Larry E. Pendleton and A. Behrooz Ramesh/ Bechtel Develops Innovative Method for Horizontal Drilling, Technology, May 27, 1985, Oil & Gas Journal, pp. 95-99.
129	C.J. Perry, Directional Drilling with PDC Bits in the Gulf of Thailand, SPE 15616.
130	Dr. A.S. Pocovi and Lic. L. Gustavino, Dr. A. Pozzo and Eng. J.A. Musmarra, Comparing Cost and Performance of Horizontal Wells, World Oil, March 1991, pp. 39, 40, 42-44.
131	Pope, C.D., and Handren, P.J., Completion Techniques for Horizontal Wells in the Pearsall Austin Chalk, SPE 20682, September 23, 1990, pp. 657-664.
132	Michael M. Power, Roger Chapman, and Robert O'Neal, Horizontal Well Sets Depth Record Completing Deep Horizontal Well, Petroleum Engineer International, November 1990, pp. 37-38.
133	Michael M. Power, Roger Chapman, and Robert O'Neal, Horizontal Drilling Below 14,600 Ft; Petroleum Engineer International, November 1990, p. 36.
134	Prevedel, B., "New Techniques in Horizontal and Drainhole Drilling Optimization: Lehrte 41 Lateral Drilling Project," SPE 15694, 03/07/87.
135	Bernhard Prevedel, Case History: How One Operator Drilled Horizontally Through a Salt Dome, World Oil, December 1985, pp. 69, 73, 76, 80.
136	R.H. Reiley, J.W. Black, T.O. Stagg, D.A. Walters and G.R. Atol, Cementing of Liners in Horizontal and High-Angle Wells at Prudhoe Bay, Alaska, SPE 16682, pp. 583-590.
137	R.H. Reiley, J.W. Black, T.O. Stagg, D.A. Walters and G.R. Atol, Improving Liner Cementing in High-Angle/Horizontal Wells, World Oil, July 1988, pp. 69, 71, 73, 74.
138	O. Rivas, A Newsky, M. Cedeno, P. Rivera, Sucker Rod Centralizers for Directional Wells, SPE 21131.
139	O.L.A. Santos, Important Aspects of Well Control for Horizontal Drilling Including Deepwater Situations, SPE/IADC 21993, pp. 785-796.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
140	S. Schellenberg, T. Rogers and L. Smith, Deviation Control with Steerable System Lowers Well Costs in Southern Oklahoma, SPE 22567, pp. 299-312.
141	L. McDonald Schetky, Shape-Memory Alloys, November 1979, Vol. 241, No. 5, pp. 2-10.
142	D.R. Schroeter and H.W. Chan, Successful Application of Drilling Technology Extends Directional Capability, SPE Drilling Engineering, September 1989, pp. 230-236.
143	Siegfried K. Schueler, Horizontal Well Improves Recovery in Deep Sour Gas Field, Oil & Gas Journal, March 23, 1992, pp. 93, 94, 96, 97.
144	L. Shale, Development of Air Drilling Motor Holds Promise for Specialized Directional Drilling Applications, SPE 22564, pp. 275-286.
145	Les Shale, Downhole Motor Specifically Designed for Directional Air Drilling, Oil and Gas Journal, Feb. 3, 1992, pp. 45-49.
146	D.W. Sherrard, B.W. Brice and D. G. MacDonald, Application of Horizontal Wells at Prudhoe Bay, SPE 15376, pp. 1-8, tables 1-15.
147	Correspondence, from William E. Shull to Matt W. Carson, October 2, 1996.
148	R.A. Skopec, M.M. Mann, D. Jeffers and S.P. Grier, Horizontal Core Acquisition and Orientation for Formation Evaluation, SPE 20418, pp. 153-166.
149	M.Y. Soliman, James L. Hunt and A.M. El Rabaa, Fracturing Aspects of Horizontal Wells, August 1990, JPT.
150	Mohamed Soliman, Bob Rose, Wadood El Rabaa and James L. Hunt, Planning Hydraulically Fractured Horizontal Completions, World Oil, September 1989, pp. 54-56, 58.
151	Derry D. Sparlin and Raymond W. Hagen, Jr., Controlling Sand in a Horizontal Completion, World Oil, November 1988, pp. 54-58.
152	A. Spreux, A. Louis, M. Rocca, Logging Horizontal Wells-Field Practice for Various Techniques, SPE 16565, pp. 1-14.
153	Alain Spreux, Christian Georges, and Jacques Lessi, Most Problems in Horizontal Completions Are Resolved, Technology, Oil & Gas Journal, June 13, 1988, pp. 48-52.
154	Stagg and Reiley, Horizontal Well Completions in Alaska, World Oil, March 1990, pp. 37-44.
155	Carl W. Stang, Alternative Electronic Logging Technique Locates Fractures in Austin Chalk Horizontal Well, Oil & Gas Journal, Nov. 6, 1989, Technology, pp. 42-45.
156	Steenbock, et al., "Alternative Drainhole Drilling System-Theoretical Background and Practical Experience."
157	Stormont, D.H., "Increasing Drainage of Oil into Well by Drain-Hole Drilling," Oil and Gas Journal, August 17, 1953.
158	R.J. Tailby, J.H. Yonker and J.L. Pearce, A New Technique for Servicing Horizontal Wells, SPE 22823, pp. 43-58.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
159	Todd Talbot, Dual Horizontal Well Completion, Baker Oil Tools, 12/8/92.
160	Talk et al., Special Liner Design Improves Dual Lateral Horizontal Well, OGI, 08/31/92.
161	Glen Tolle, Thomas Dellinger, Mobil Identifies Extended-Reach-Drilling Advantages, Possibilities in North Sea, Oil & Gas Journal, May 26, 1986, Technology, pp. 78, 81-86.
162	D.K. Trichel and M.P. Ohanlan, Unique Articulated Downhole Motor Holds Promising Future for Short Radius Horizontal Drilling, SPE 20417, pp. 137-149.
163	Y. Tsukano and M. Ueno, Development of Lightweight Steel Drillpipe with 165-ksi Yield Strength, IADC/SPE 19960, pp. 403-412.
164	H.J. Vrielink and A.M. Hippman, Optimization of Slant Well Drilling in the Lindberg Field, SPE Drilling Engineering, December 1989, pp. 307-314.
165	M.B. Webster, G.E. Otott Jr. and D.L. Rice, Cementing High-Angle-Wells Using Cement-Expanded Formation Packers and/or Casing Rotation, SPE/IADC 16136, pp. 745-754.
166	J.B. Weirich, T.E. Zaleski Jr., and P.M. Mulcahy, Perforating the Horizontal Well: Designs and Techniques Prove Successful, SPE 16929, pp. 503-508.
167	C.W. White, Drilling and Completion of a Horizontal Lower Spraberry Well Including Multiple Hydraulic Fracture Treatments, SPE 19721, pp. 205-210.
168	Cameron White and Mark Hopmann, Controlling Flow in Horizontal Wells, World Oil, November 1991.
169	Cameron White, Formation Characteristics Dictate Completion Design, Oil & Gas Journal, Dec. 3, 1990, pp. 58-62, 64.
170	J.P. Wilkerson, J.H. Smith, T.P. Stagg and D.A. Walters, Horizontal Drilling Techniques at Prudhoe Bay, Alaska, SPE 15372.
171	M.A. Wilson and F.L. Sabins, A Laboratory Investigation of Cementing Horizontal Wells, SPE Drilling Engineering, September 1988, pp. 275-280.
172	R.C. Wilson and D.N. Willis, Successful High Angle Drilling in the Statford Field, SPE 15465, pp. 1-13.
173	Bruce Woodlan and G.E. Powell, Casing Design in Directionally Drilled Wells, SPE 5352, pp. 1-12.
174	Jiang Wu, Ping Chen and Hans C. Juvkam-Wold, Casing Centralization-Centralization of Casing in Horizontal Wells, Popular Horizontal, April/June 1991, pp. 14-21.
175	Jiang Wu, Hans C. Juvkam-Wold, Drag and for Horizontal Wells Simplified for Field Use, Oil & Gas Journal, April 29, 1991, pp. 49-53, 56.
176	T.E. Zaleski, Jr., Sand-Control Alternatives for Horizontal Wells, JPT, May 1991.
177	Theodore E. Zaleski, Jr and Jefferson P. Ashton, Gravel Packing Feasible in Horizontal Well Completions, Oil & Gas Journal, June 11, 1990, pp. 33-37.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
178	Chris Zimmerman and Donny Winslow, How to Select the Right Tools for Stimulating Horizontal Wells, World Oil, November 1989, pp. 53-36.
179	C. Zurdo, C. Georges, and M. Martin, Mud and Cement for Horizontal Wells, SPE 15464.
180	Cementing of Horizontal Wells, Horizontal Well Completions, pp. 9-14.
181	Drilling Fluids for Horizontal Wells, Oilfield Review, Vol. 2, No. 3, pp. 8-10.
182	Fracturing of Horizontal Wells, Horizontal Well Completions, Western International, pp. 23-30.
183	Staff Report, Getting to the Bottom with Slant-Hole Logging Tools, Petroleum Engineer International, February 1988, pp. 32, 34.
184	Horizontal Drilling Records Recognized, Petroleum Engineer International, February 1988, p. 35.
185	Horizontal Drilling Stays Hot; Petroleum Engineer International, April 1989, Petroleum Engineer International, p. 24.
186	Schlumberger, Horizontal Wells Reach Out for Reservoir Data to Maximize Productivity from Your Horizontal Well; Petroleum Engineer International, November 1990, pp. 40-41.
187	Horizontal Well Case Histories, Horizontal Well Completions, Western International, pp. 31-37.
188	New Logging Techniques, Petroleum Engineer International, November 1990, pp. 27-29.
189	Matrix Stimulation of Horizontal Wells, Western International, pp. 15-21.
190	Reservoir Selection for Horizontal Wells, Western International, pp. 1-8.
191	SPE 20005, JPT, April 1990, pp. 399-400.
192	S. Barua "Computation of Heat Transfer in Wellbores with Single and Dual Completions," SPE paper 22868, presented at the 66 th Annual Technical Conference and Exhibition of the Society of Petroleum Engineers, Dallas, TX, 6-9 October 1991.
193	Butler, R.M., "A New Approach to the Modeling of Steam-Assisted Gravity Drainage," J.Cdn.Pet.Tech., May-June 1985, pp. 417-421.
194	Cooper, et al., "Deep Heavy-Oil Recovery by Steam Injection Using Twin Horizontal Drainholes," Society of Petroleum Engineers 24088, March 30-April 1, 1992.
195	Natural Reserves Group, Inc. v. Baker Hughes, Inc. et al. (District Court Harris County, Texas 333 rd Judicial District) No. 96-31380 - Pleadings and documents.
	Exhibit A: Plaintiff's Original Petition, 6/21/96.
	Exhibit B: Defendants' Original Answer, 7/29/96.
	Exhibit C: Agreed Protective Order (signed by Judge), 10/11/96.
	Exhibit D: Scheduling Order, 10/17/96.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Atty. Docket No.	2376.0006-01	Serial No.	09/824,738
Applicant	Michel Gondouin		
Filing Date	April 4, 2001	Group:	3673

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	Exhibit E: Defendants' Original Counterclaim, 4/23/97.
	Exhibit F: Plaintiff's First Amended Original Petition, 9/4/97.
	Exhibit G: Defendants' Motion for Leave to File Defendants' Amended Motion for Summary Judgment on All Claims in Plaintiff's First Amended Original Petition, 9/12/97.
	Exhibit H: Defendants' Amended Motion for Summary Judgment on All Claims in Plaintiff's First Amended Original Petition, 9/12/97.
	Exhibit I: Plaintiff's Second Amended Original Petition, 9/25/97.
	Exhibit J: Plaintiff's Response to Defendants' Amended Motion for Summary Judgment on All Claims in Plaintiff's First Amended Original Petition, 10/30/97.
	Exhibit K: Stipulation Between NRG and Halliburton Regarding Exchange of "Confidential" and "Highly Confidential" Information.
	Exhibit L: Defendants' Reply Memorandum in Support of Motion for Summary Judgment on All Claims Based on Defendants' Independent Development of Information Contained in Baker Hughes' Patents, 12/3/97.
	Exhibit M: Plaintiff's Third Amended Original Petition, 3/3/98.
	Exhibit N: Supplemental Agreed Protective Order Between Baker Hughes Incorporated et al., Halliburton Energy Services, Inc., Halliburton Company and Sperry-Sun Drilling Services, Inc., 3/30/98.
	Exhibit O: Natural Reserves Group, Inc. v. Baker Hughes, Inc. Docket Sheet, 7/24/98.
196	Cooper, G.A., and M. Gondouin, "Improved Steam Stimulation of Heat Oil Wells," Final Report on California Competitive Technology Project No. CT 90 A-046-RW (submitted 11/1991)
Examiner	Date Considered
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	
Form PTO 1449	
Patent and Trademark Office - U.S. Department of Commerce	